DRAFT

PEO TSC ANALYSIS
of
AMP FMPMIS ACCURACY STUDY

CDR C. Whitman
PEO TSC-F4
April 2001

Background

DRAFT

- **AMP released results of FMPMIS Accuracy study, 16 Feb 01**
- **Data** (slides and raw data) **provided per individual SPM/PEO** (no total overview of all SPMs/PEOs provided)
- **Main slides(3) consisted of:**
  1. “Compliance…with FMP process”
  2. “Accuracy of…elements in FMPMIS”
  3. “% of K and D Alts …compared to other sources”
- **Overall results indicated data in FMPMIS was inaccurate**
- **TSC evaluated AMP data in slides #2 and #3**
  (Milestone adherence, slide #1, more difficult to analyze and was not conducted at this time.)
- **Results of TSC evaluation follow**

TSC Analysis of slide #2:

"Accuracy of entered K & D FMP elements in FMPMIS"

DRAFT

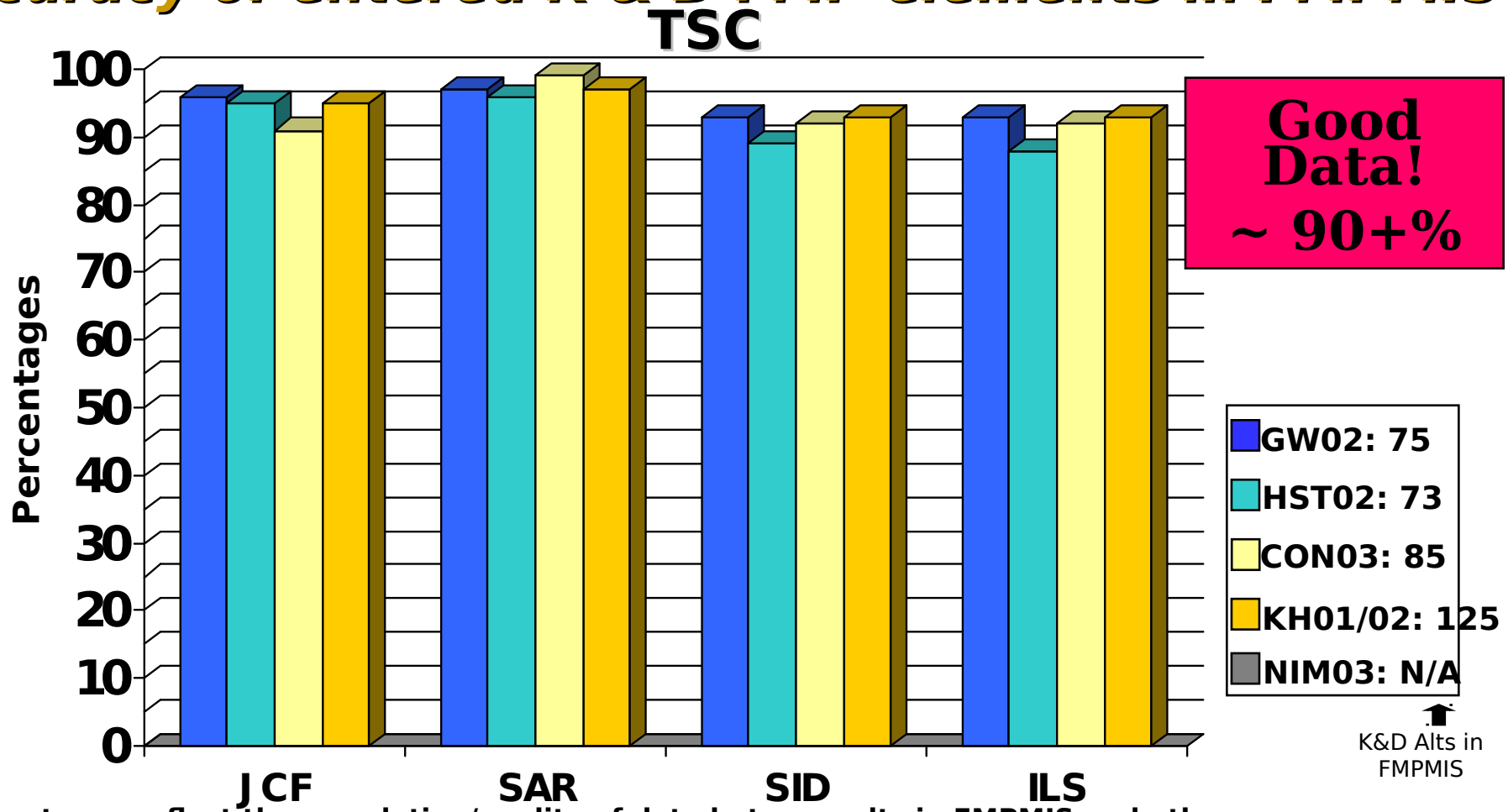
- AMP analysis verified accuracy ("trueness") of elements (JCF/ SAR/ SID/ ILS) already in FMPMIS
- I.E. if data was there, was the specific data correct?
- TSC FMPMIS accuracy was approximately 90+%
- <u>Not</u> a problem area
- Data based on element count. Original slide follows

ORIGINAL AMP SLIDE

DRAFT

FMPMIS Accuracy

Accuracy of entered K & D FMP elements in FMPMIS



Good Data! ~ 90+%

Percentages reflect the correlation/quality of data between alts in FMPMIS and other sources, i.e. SAMIS, D-24 Msg, Port Engineer; however, percentages DO NOT reflect actual completeness or

This only implies that IF data WAS in FMPMIS, it's status was correct

TSC Analysis of slide #3:

"% of K & D Alts in FMPMIS compared to other sources"

DRAFT

- **AMP analysis compared the "ground truth" to what was in FMPMIS**
- **"Ground truth" was a subjective determination or the true status from extracting data out of 18 other sources**
- **AMP data showed that a major drop-off in accuracy occurred as the BG approached deployment**
- **Data based on per shipalt (i.e. alt considered in entirety). See following slide**

ORIGINAL AMP SLIDE

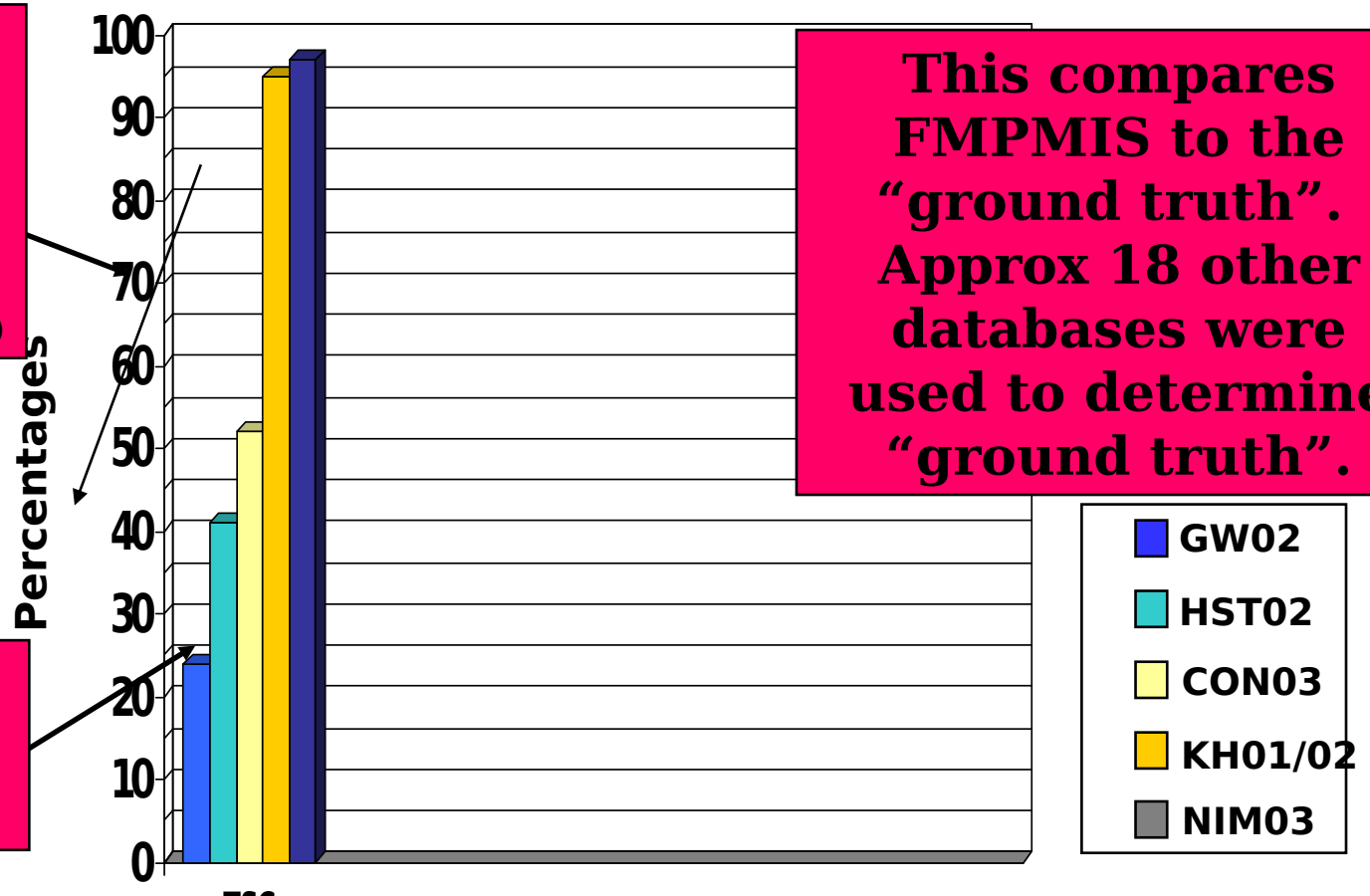
DRAFT

FMPMIS Accuracy

% of K & D Alts in FMPMIS compared to other sources

Trend indicates increased modernization insertion rate as deployment approaches.

(Note KH is FDNF)



This compares FMPMIS to the "ground truth". Approx 18 other databases were used to determine "ground truth".

GW = ~25% accuracy!

Percentages reflect the correlation/quality of data between alts in FMPMIS and other sources, i.e. SAMIS, D-24 Msg, Port Engineer; however, percentages DO NOT reflect actual completeness or process compliance .

For NIM, the only other data source at this time is Advance Planning Ltr.

MIW ships not evaluated for GW and HST Battle Forces

TSC Analysis of Previous Slide(#3):

DRAFT

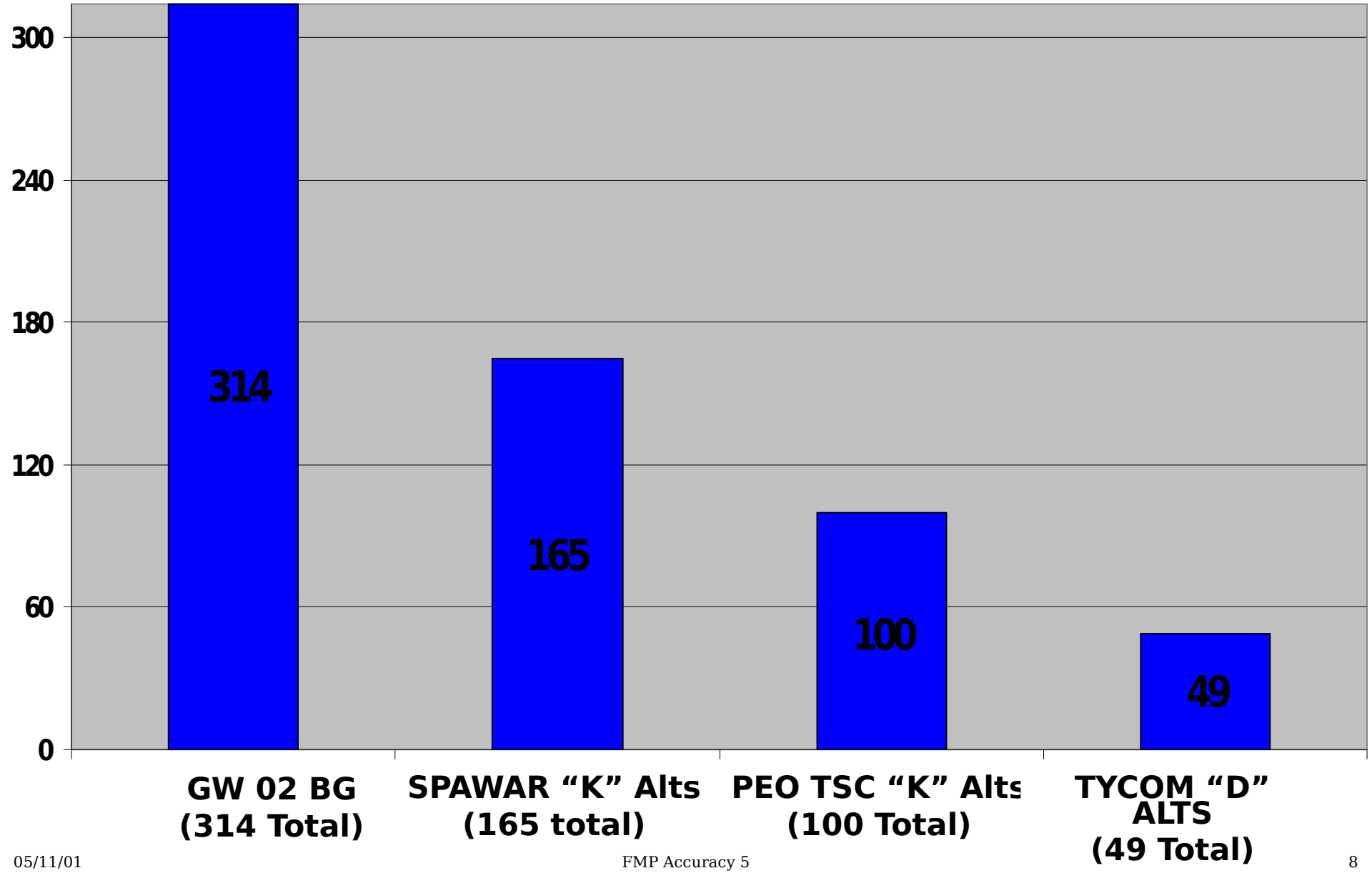
"% of K & D Alts in FMPMIS compared to other sources"

Methodology:

- **Will consider GW BG only (for this analysis) due to low 27% accuracy**
- **Examine drivers**
  - **Step 1: Sort out by alt source category**
    - **K-Alt**
      - **TSC**
      - **SPAWAR**
    - **D-Alt**
  - **Step 2: Sort out by status/error category**
    - **Programmed correctly**
    - **TBD**
    - **Duplicate**
    - **Other Discrepancies**

GW Alt Source Category Breakdown

DRAFT



Status/Error Categories

DRAFT

- **Correctly Programmed**

  Data had correct match-up between “ground truth” and FMPMIS.

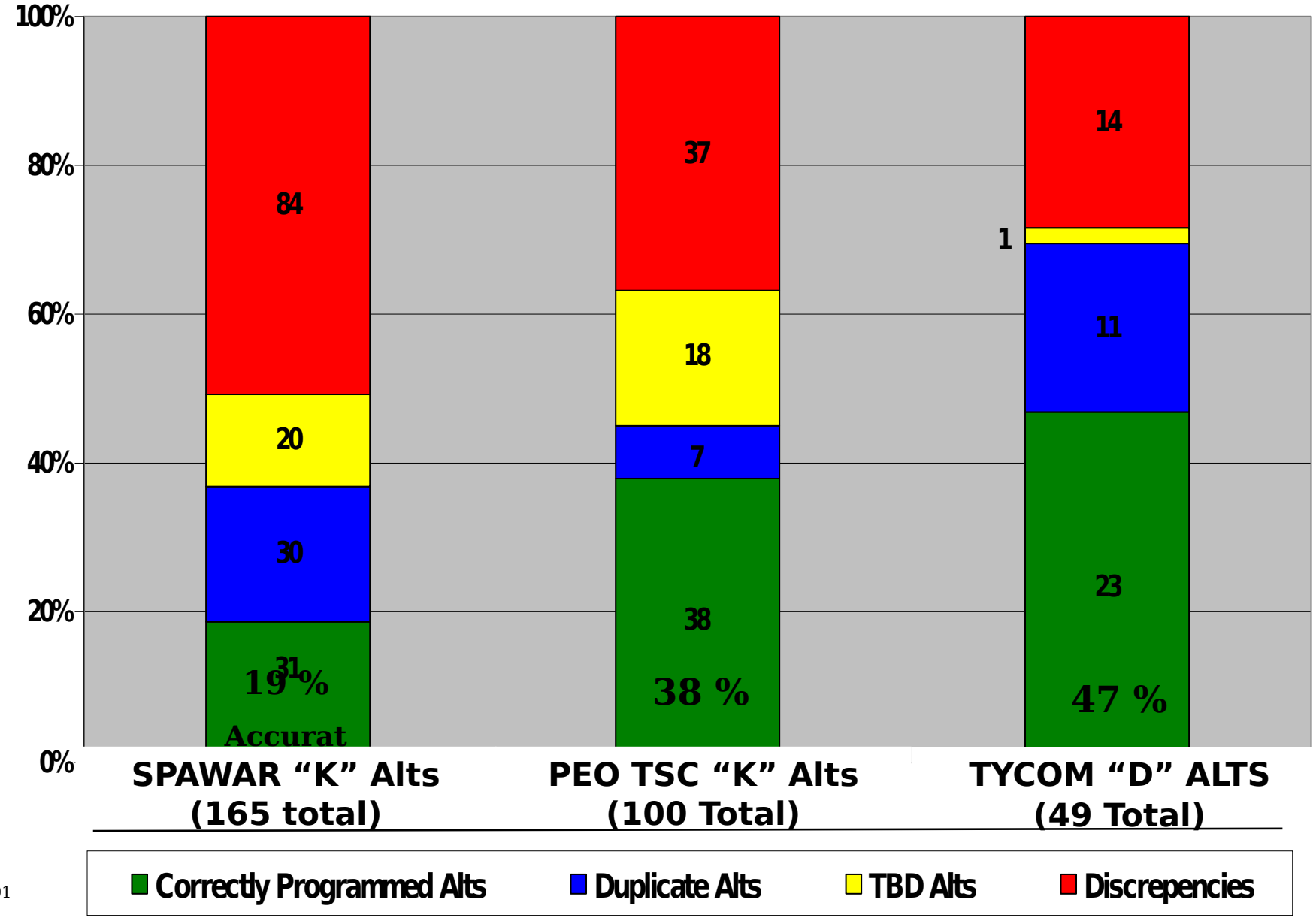
- **TBDs -** Alterations noted in “ground truth” do not have valid ShipAlt numbers. Alts are still in development – do not have JCFs and have not been approved via the PEO TSC CM process.

- **Duplicates -** Alterations entered into the “ground truth” twice by mistake, or incremented alterations that although 1st increment was correctly loaded with data, follow-on increments were not loaded.

- **Other Discrepancies**- FMPMIS data does not match “ground truth” (Other errors not due to “TBD” or “duplicate”. Mainly lack of, or late, data entry. Or AIT data in AIPs but not in FMPMIS)

GW Alt Error Categories

DRAFT



Results

DRAFT

- **SPAWAR K-Alt “Other Discrepancies” was main driver for GW’s 27% accuracy. This equates to lack of, or late programming against individual hulls, or WOO AITs not in FMPMIS.**
- **But…TSC K-Alts and TYCOM D-Alts had their own share of programming discrepancies**
- **“TBDs” affected both SPAWAR and TSC Alts**
- **“Duplicates” were a problem for all Alt source categories**

“Get Well” Game Plan DRAFT

- **Duplicates**
  - Must repeat data status for each increment on incremental Alts (e.g. Helen Strainers DDG 51-0271, FO Tank Stiffening CG 47-399, etc.). TSC has started additional data insertion.
- **TBDs**
  - When TBDs are identified, expedite the JCF/SAR approval process (Generic process improvement being pursued via FMP Conference)
  - Maybe...
    - Track in FMPMIS “Proposed” Module at hull level?
    - Establish a link from FMPMIS database to Planning Yard or other database for planned (not programmed) Alts?
- **Other Discrepancies**
  - Need timely FMPMIS inputting when data changes.
    TSC has already increased update frequencies to “continuous”.
  - Data in AIPS/GAITS does not show in FMPMIS. This will be resolved when NDE rolls AIPS/GAITS into FMPMIS rehost. Also investigating AIT programming per FY in FMPMIS, if AIT not sked for CNO avail.
  - Mainly SPAWAR, but also other SYSCOMs, must program their Alts in FMPMIS by specific ship